

Author Index for Volume 12

- Agnew, H. W. Jr. *See* Webb, W. B.
- Alexander, A. Barney. An experimental test of assumptions relating to the use of electromyographic biofeedback as a general relaxation training technique 656
- Alexander, A. Barney, French, Cheryl Anne, and Goodman, Naomi J. A comparison of auditory and visual feedback in biofeedback assisted muscular relaxation training 119
- Andreassi, J. L., Okamura, H., and Stern, M. Hemispheric asymmetries in the visual cortical evoked potential as a function of stimulus location 541
- Augenbraun, C. B. *See* Crider, A.
- Augenstein, J. S. *See* Schneiderman, N.
- Austin, Mary L. *See* Klorman, R., and Wiesenfeld, A. R.
- Ax, A. F. *See* Novelly, R. A.
- Baer, Paul E. *See* Maule, W. F.
- Ball, C. *See* Crow, L. T.
- Barland, Gordon H., and Raskin, David C. An evaluation of field techniques in detection of deception 321
- Barland, Gordon H., and Raskin, David C. Psychopathy and detection of deception in criminal suspects. (Abstract) 224
- Bartol, Curt R. The effects of chlorpromazine and dextroamphetamine sulphate on the visual stimulation preference of extraverts and introverts 25
- Begleiter, Henri. *See* Porjesz, B.
- Bell, Iris R., and Schwartz, Gary E. Voluntary control and reactivity of human heart rate 339
- Belleza, Teodoro. *See* Rappaport, M.
- Ben Shakh, Gershon, Lieblich, Israel, and Kugelmass, Sol. Detection of information and GSR habituation: An attempt to derive detection efficiency from two habituation curves 283
- Benson, K., and Feinberg, I. Sleep and memory: Retention 8 and 24 hours after initial learning 192
- Benson, P. J. *See* Schulman, C. A.
- Berg, W. K. Cardiac components of the defense response in infants. (Abstract) 224
- Berg, W. Keith, Jackson, Jan C., and Graham, Frances K. Tone intensity and rise-decay time effects on cardiac responses during sleep 254
- Bernstein, Alvin S., Taylor, Kenneth W., and Weinstein, Erica. The phasic electrodermal response as a differentiated complex reflecting stimulus significance .. 158
- Bertilson, H. S. *See* Dengerink, H. A.
- Bidus, Donald R. *See* Goldman, H.
- Biferno, M. A., and Dawson, M. E. The measurement of awareness during GSR classical conditioning. (Abstract) 224
- Bittker, Thomas E., Buchsbaum, Monte S., Williams, Redford B. Jr., and Wynne, Lyman C. Cardiovascular and neurophysiologic correlates of sensory intake and rejection. II. Interview behavior 434
- Bittker, Thomas E. *See also* Williams, R. B.
- Bixler, Edward O. *See* Scharf, M. B.
- Bland, Peyton H. Modification of the Grass 7P4 Tachograph Preamplifier for more reliable triggering 116
- Blevings, George. *See* Hare, R. D.
- Borroni, Alan. *See* Fein, G.
- Botticelli, L. J. *See* Lawler, J. E.
- Boudreau, Louis. *See* Epstein, S.
- Brady, Joseph V. *See* Stephens, J. H.
- Brener, Jasper. *See* Middaugh, S.
- Brickett, P. A. Negative slow potentials emitted by participants in an EEG-controlled computer game. (Abstract) 225
- Buchsbaum, Monte S., Gillin, J. Christian, and Pfefferbaum, Adolf. Effect of sleep stage and stimulus intensity on auditory average evoked responses 707
- Buchsbaum, Monte S. *See also* Bittker, T. E., and Williams, R. B.
- Bull, R. H. C., and Gale, M. A. Electrodermal activity recorded concomitantly from the subject's two hands. 94
- Bundy, Robert S., and Fitzgerald, Hiram E. Stimulus specificity of electrodermal recovery time: An examination and reinterpretation of the evidence 406
- Busk, Jytte. *See* Gliddon, J. B.
- Butters, Elizabeth. *See* Cartwright, R. D.
- Carpenter, F. Allen. *See* McDonald, D. G.
- Carriero, Nicholas John. The effects of paced tapping on heart rate, skin conductance, and muscle potential .. 130
- Cartwright, Rosalind D., Lloyd, Stephen, Butters, Elizabeth, Weiner, Lynda, McCarthy, Lois, and Hancock, Judith. Effects of REM time on what is recalled 561
- Catania, Jeffrey. *See* Dawson, M., and Schell, A. M.
- Clark, C. G. *See* Prokasy, W. F.
- Clifton, Rachel Keen. *See* Pomerleau-Malcuit, A.
- Cohen, Harvey D., Goodenough, Donald R., Witkin, Herman A., Oltman, Philip, Gould, Harry, and Shulman, Ernest. The effects of stress on components of the respiration cycle 377
- Cohen, Harvey. *See also* Goodenough, D. R.
- Coles, M. G. H., and Duncan-Johnson, C. C. The effects of attentional and response requirements on HR. (Abstract) 225
- Corley, K. C., Mauck, H. P., and Shiel, F. O'M. Cardiac responses associated with "yoked-chair" shock avoidance in squirrel monkeys 439
- Corwin, J. V. *See* Slaughter, J. S.
- Cowen, Murray A. CO₂: A possible missing link between regional cortical metabolism and transepithelial direct current potentials 693
- Creutzfeldt, Otto D. *See* Galbraith, G. C.
- Crider, Andrew, and Augenbraun, C. B. Auditory vigi-

- lance correlates of electrodermal response habituation speed 36
- Crow, Lowell T., and Ball, Corbin. Alcohol state-dependency and autonomic reactivity 702
- Darley, C. F. *See* Roth, W. T.
- Davis, C., Michalewski, H., Taylor, M., and Weinberg, H. Preparatory muscular tension and CNV. (Abstract) 226
- Dawson, M. E., Schell, A. M., and Catania, J. Autonomic activity in depressive illness. (Abstract) 226
- Dawson, M. E. *See also* Biferno, M. A.
- DeGood, Douglas E. Cognitive control factors in vascular stress responses 399
- Dengerink, H. A., and Bertilson, H. S. Psychopathy and physiological arousal in an aggressive task 682
- DiCara, Leo V. *See* Wilson, J. R.
- Dirlich, Heiner. *See* Legewie, H.
- Doerr, Hans O. *See* Varni, J. G.
- Duncan-Johnson, C. C. *See* Coles, M. G. H.
- Edelberg, Robert. *See* Maricq, H. R.
- Edwards, D. V. *See* Strahan, R.
- Edwards, David C. Stimulus intensity reduction following habituation 12
- Edwards, David J. *See* McDonald, D. G.
- Eissenberg, Ethel. *See* Middaugh, S.
- Elliott, Rogers. Heart rate, activity, and activation in rats 298
- Engel, Bernard T. *See* Weiss, T.
- Engelman, K. *See* Weiss, T.
- Epstein, Leonard H., and Webster, Jeffrey S. Reliability of various estimates of electromyogram activity: Within and between subject analyses 468
- Epstein, Seymour, Boudreau, Louis, and Kling, Stephen. Magnitude of the heart rate and electrodermal response as a function of stimulus input 15
- Erlenmeyer-Kimling, L. *See* Fein, G.
- Faer, M. *See* Schachter, J.
- Fair, P. L. *See* Schwartz, G. E.
- Fein, G., Tursky, B., and Erlenmeyer-Kimling, L. Stimulus sensitivity and reactivity in children at high risk for schizophrenia. (Abstract) 226
- Fein, George, Frosch, Allan, and Borroni, Alan. The "double-collar" technique for EEG electrode preparation and placement 480
- Feinberg, I. *See* Benson, K.
- Feinsod, Moshe, Feinsod, Rachel, and Madey, Julius M. Effects of vibrotactile background on the somatosensory evoked response 208
- Feinsod, Rachel. *See* Feinsod, M.
- Fenelon, Bernard. *See* Papakostopoulos, D.
- Fey, Steven G., and Lindholm, Ernest. Systolic blood pressure and heart rate changes during three sessions involving biofeedback or no feedback 513
- Figar, Stepan. *See* Oster, P. J.
- Finnegan, L. P. *See* Kaplan, S. L.
- Firth, Hugh, and Oswald, Ian. Eye movements and visually active dreams 602
- Fitzgerald, Hiram E. *See* Bundy, R. S.
- Foran, J. M. *See* Schwartz, G. E.
- Ford, J. M., Roth, W. T., and Kopell, B. S. Auditory evoked potentials to unpredictable shifts in pitch. (Abstract) 226
- Frazier, Robert E. *See* McDonald, D. G.
- French, Cheryl Anne. *See* Alexander, A. B.
- Frese, F. J., and Kotses, H. Cardiovascular measures of mental effort. (Abstract) 226
- Frosch, Allan. *See* Fein, G.
- Fuhrer, Marcus J. Characteristics of skin conductance responses evoked from spinal man. (Abstract) 227
- Fuhrer, Marcus J. *See also* Maule, W. F.
- Furedy, John J., Poulos, Constantine X., and Schiffmann, Karl. Contingency theory and classical autonomic excitatory and inhibitory conditioning: Some problems of assessment and interpretation 98
- Gaebelein, Claude J. *See* Obrist, P. A.
- Galambos, R. *See* Schulman, C. A.
- Galbraith, Gary C., Hohmann, Anna, and Creutzfeldt, Otto D. Correlation between the chromatic visual evoked response and McCullough aftereffect 667
- Galbraith, Gary C. *See also* Gliddon, J. B.
- Gale, M. A. *See* Bull, R. H. C.
- Galosy, Richard A. *See* Obrist, P. A.
- Gang, Mark Jay, and Teft, Leon. Individual differences in heart rate responses to affective sound 423
- Gatchel, Robert J., and Proctor, J. D. Physiological correlates of learned helplessness in man. (Abstract) 227
- Gatchel, Robert J. *See also* Lang, P. J.
- Geer, James H. *See* Sincchak, G.
- Gerster, Freidemann. *See* Legewie, H.
- Gillin, J. Christian. *See* Buchsbaum, M.
- Glabman, Hanania. *See* Legewie, H.
- Gliddon, J. B., Busk, Jytte, and Galbraith, Gary C. Visual evoked responses as a function of light intensity in Down's syndrome and nonretarded subjects 416
- Goldman, Herbert, Kleinman, Kenneth M., Snow, Muriel Y., Bidus, Donald R., and Korol, Bernard. Relationship between essential hypertension and cognitive functioning: Effects of biofeedback 569
- Good, Robin. Frontalis muscle tension and sleep latency 465
- Goodenough, Donald R., Witkin, Herman A., Koulack, David, and Cohen, Harvey. The effects of stress films on dream affect and on respiration and eye-movement activity during rapid-eye-movement sleep 313
- Goodenough, Donald R. *See also* Cohen, H. D.
- Goodman, Naomi J. *See* Alexander, A. B.
- Gorham, J. C. *See* Novelly, R. A.
- Gould, Harry. *See* Cohen, H. D.
- Graham, Frances K. The more or less startling effects of weak prestimulation 238
- Graham, Frances K. *See also* Berg, W. K., and Putnam, L. E.
- Greenberg, P. S. *See* Schwartz, G. E.
- Greenfield, L. J. *See* Orr, W. C.
- Grignolo, A., and Williams, R. B. Jr. Anticipatory cardiovascular responses to footshock: Mediation by brain amines. (Abstract) 227
- Gruzelier, J. H., and Venables, P. H. Evidence of high and low levels of physiological arousal in schizophrenia 66

- Habberfield, T. *See* Harris, V. A.
- Hahn, William W., Schwartz, Michael L., and Sapper, Herbert V. The effects of *d*-tubocurarine chloride and respiratory settings on heart rate and blood gas composition in the albino rat 331
- Hahn, William W. *See also* Slaughter, J. S.
- Hall, Karyl. *See* Rappaport, M.
- Hall, Robert A. *See* Rappaport, M.
- Hancock, Judith. *See* Cartwright, R. D.
- Hardt, J. V., and Kamiya, J. A comparison of percent time and amplitude integration measures of EEG alpha. (Abstract) 228
- Hare, Robert D., and Blevings, George. Conditioned orienting and defensive responses 289
- Harris, Alan H. *See* Stephens, J. H.
- Harris, V. A., Katkin, E. S., Lick, J. H., and Habberfield, T. Paced respiration and cardiac response to stress. (Abstract) 228
- Hart, James D. Cardiac response to simple stimuli as a function of phase of the respiratory cycle 634
- Hassett, J., and Schwartz, G. E. Relationships between heart rate and occipital alpha: A biofeedback approach. (Abstract) 228
- Haynes, Stephen, Moseley, Dianne, and McGowan, William T. Relaxation training and biofeedback in the reduction of frontalis muscle tension 547
- Herron, J. EEG alpha asymmetry and dichotic listening in stutterers. (Abstract) 228
- Hohmann, Anna. *See* Galbraith, G. C.
- Hopkins, H. Kenneth. *See* Rappaport, M.
- Hord, D. J., Tracy, M. L., Lubin, A., and Johnson, L. C. Effect of self-enhanced EEG alpha on performance and mood after two nights of sleep loss 585
- Hord, David. Common mode rejection techniques in conjugate eye movement recorded during sleep 354
- Howard, James L. *See* Obrist, P. A.
- Inglis, G. *See* Strahan, R.
- Jackson, Jan C. *See* Berg, W. K.
- Jens, R. *See* Syndulko, K.
- Johnson, L. C., Townsend, R. E., and Wilson, M. R. Habituation during sleeping and waking 574
- Johnson, L. C. *See also* Hord, D. J., and Moses, J. M., and Townsend, R. E.
- Jones, John R. *See* Williams J. G. L. (2)
- Jones, K. *See* Salamy, J.
- Juris, Michael. *See* Velden, M.
- Kadobayashi, Iwao, Toyoshima, Akiteru, and Kato, Nobukatsu. Visual evoked potentials before and after Kraepelin performance test in schizophrenia 187
- Kales, Anthony. *See* Scharf, M. B.
- Kamiya, J. *See* Hardt, J. V.
- Kaplan, S. L., Kron, R. E., Litt, M., Finnegan, L. P., and Phoenix, M. D. Correlations between scores on the Brazelton Neonatal Assessment Scale, measures of newborn sucking behavior, and birthweight in infants born to narcotic addicted mothers. (Abstract) 229
- Katkin, E. S. *See* Harris, V. A.
- Kato, Nobukatsu. *See* Kadobayashi, I.
- Kerr, J. L. *See* Khachaturian, Z. S., and Schachter, J.
- Khachaturian, Z. S., Shih, T. M., Reisler, K. L., and Kerr, J. L. Cortical evoked potentials: A new panacea for psychophysiology. (Abstract) 229
- Kinsman, Robert A., O'Banion, Katy, Robinson, Sharon, and Staudenmayer, Herman. Continuous biofeedback and discrete posttrial verbal feedback in *frontalis* muscle relaxation training 30
- Kleinman, Kenneth M. *See* Goldman, H.
- Klerman, G. L. *See* Schwartz, G. E.
- Klieger, Douglas M. *See* Kuhlman, W. N.
- Kling, Stephen. *See* Epstein, S.
- Klinge, V. *See* Novelly, R. A.
- Klorman, Rafael. Contingent negative variation and cardiac deceleration in a long preparatory interval: A developmental study 609
- Klorman, Rafael. Multiple responses in cardiac and cortical reaction time waveforms: Developmental trends. (Abstract) 229
- Klorman, Rafael, Wiesenfeld, Alan R., and Austin, Mary L. Autonomic responses to affective visual stimuli .. 553
- Klorman, Rafael. *See also* Wiesenfeld, A. R.
- Klose, K. J. *See* Schneiderman, N.
- Knott, J. R. *See* Kondo, C. Y.
- Kondo, C. Y., Travis, T. A., and Knott, J. R. The effects of changes in motivation on alpha enhancement 388
- Kopell, B. S. *See* Ford, J. M., and Roth, W. T.
- Korol, Bernard. *See* Goldman, H.
- Kotes, H. *See* Frese, F. J.
- Koulak, David. *See* Goodenough, D. R.
- Kron, R. E. *See* Kaplan, S. L.
- Krupski, Antoinette. Effect of pacing cues on second-by-second heart rate patterns during a modified reaction time task. (Abstract) 230
- Krupski, Antoinette. Heart rate changes during a fixed reaction time task in normal and retarded adult males 262
- Kugelmas, Sol. *See* Ben Shakhar, G.
- Kuhlman, William N., and Klieger, Douglas M. Alpha enhancement: Effectiveness of two feedback contingencies relative to a resting baseline 456
- Lacey, John I. For distinguished contribution to psychophysiology: Robert Edelberg 220
- Lachin, J. M. *See* Schachter, J.
- Landreth, J. *See* Salamy, J.
- Lang, Peter J., Gatchel, Robert J., and Simons, Robert F. Electro-cortical and cardiac rate correlates of psychophysical judgment 649
- Lattin, G. M. *See* Weiss, T.
- Lawler, James E., Botticelli, L. J., and Lown, B. Cardiac excitability during behavioral stress. (Abstract) 230
- Lawler, James E., Obrist, Paul A., and Lawler, Kathleen A. Cardiovascular function during pre-avoidance, avoidance, and post-avoidance in dogs 4
- Lawler, James E. *See also* Lawler, K. A., and Obrist, P. A.
- Lawler, Kathleen A., Obrist, Paul A., and Lawler, James E. Cardiac and somatic responses during attention. (Abstract) 230
- Lawler, Kathleen A. *See also* Lawler, J. E.
- Legewie, Heiner, Dirlich, Gerhard, and Gerster,

- Freidemann. An application language for psychophysiological experimentation 713
- Leiblich, Israel. *See* Ben Shakhhar, G.
- Lester, J. *See* Salamy, J.
- Levey, A. B. *See* Martin, I.
- Levine, John M. *See* Valle, R. S.
- Lewin, Isaac, and Glaubman, Hanania. The effect of REM deprivation: Is it detrimental, beneficial, or neutral? . . . 349
- Liberson, Cathryn Walters, and Liberson, W. T. Sex differences in autonomic responses to electric shock . . . 182
- Liberson, W. T. *See* Liberson, C. W.
- Lick, J. H. *See* Harris, V. A.
- Lindholm, Ernest. *See* Fey, S. G.
- Litt, M. *See* Kaplan, S. L.
- Little, B. C. *See* Zahn, T. P.
- Lloyd, Stephen. *See* Cartwright, R. D.
- Lockhart, R. A. C. G. Jung: A forgotten psychophysicologist remembered. (Abstract) 231
- Lovallo, William. The cold pressor test and autonomic function: A review and integration 268
- Lovallo, William, and Zeiner, Arthur R. Some factors influencing the vasomotor response to cold pressor stimulation 499
- Lovett Doust, J. N. *See* Lovett Doust, J. W.
- Lovett Doust, J. W., and Lovett Doust, J. N. Aspects of the cerebral circulation during non-REM sleep in healthy controls and psychiatric patients, as shown by rheoencephalography 493
- Lown, B. *See* Lawler, J. E.
- Lubin, A. *See* Hord, D. J., and Moses, J. M.
- Madey, Julius M. *See* Feinsod, M.
- Malcuit, Gérard. *See* Pomerleau-Malcuit, A.
- Maltzman, I. *See* Syndulko, K.
- Mandelzys, Nathan. *See* Stelmack, R. M.
- Mangelsdorff, A. David, and Zuckerman, Marvin. Habituation to scenes of violence 124
- Maricq, Hildegard R., and Edelberg, Robert. Electrodermal recovery rate in a schizophrenic population . . . 630
- Martin, Irene, Levey, A. B., and Slubicka, Barbara. Response relationships in SRR conditioning 83
- Mauck, H. P. *See* Corley, K. C.
- Maule, William F., Baer, Paul E., and Fuhrer, Marcus J. A device for studying the psychophysiological effects of thermal stimulation of the human esophagus 212
- McCarthy, Lois. *See* Cartwright, R. D.
- McDonald, David G., and Carpenter, F. Allen. Habituation of the orienting response in sleep 618
- McDonald, David G., Schicht, William W., Frazier, Robert E., Shallenberger, Hugh D., and Edwards, David J. Studies of information processing in sleep . . . 624
- McDonald, David G. *See also* Waters, W. F.
- McFarland, Richard A. Heart rate perception and heart rate control 402
- McGowan, William T. *See* Haynes, S. N.
- Michalewski, H. *See* Davis, C.
- Middaugh, Susan, Eissenberg, Ethel, and Brener, Jasper. The effect of artificial ventilation on cardiovascular status and on heart rate conditioning in the curarized rat Mino, Tetsuro, and Miyata, Yo. Effects of the range of stimulus-variation upon habituation of the orienting response 136
- Miyata, Yo. *See* Mino, T.
- Moseley, Dianne. *See* Haynes, S. N.
- Moses, J. M., Johnson, L. C., Naitoh, P., and Lubin, A. Sleep stage deprivation and total sleep loss: Effects on sleep behavior 141
- Muzet, Alain G. *See* Townsend, R. E.
- Naitoh, P. *See* Moses, J. M., and Townsend, R. E.
- Nelson, M. N., and Ross, L. E. Classical differential eyelid conditioning performance and cardiac orienting in profoundly retarded mongoloid and mixed etiology children. (Abstract) 231
- Novelly, R. A., Gorham, J. C., Ax, A. F., Klinge, V., and Rennick, P. M. Psychophysiological correlates of temporal lobe epilepsy. (Abstract) 231
- O'Banion, Katy. *See* Kinsman, R. A.
- Obrist, Paul A., Galosy, Richard A., Lawler, James E., Gaebelein, Claude J., Howard, James L., and Shanks, Emily M. Operant conditioning of heart rate: Somatic correlates 445
- Obrist, Paul A. *See also* Lawler, J. E., and Lawler, K. A.
- Okamura, H. *See* Andreassi, J. L.
- Oltman, Philip. *See* Cohen, H. D.
- Orr, W. C., Stahl, M. L., and Greenfield, L. J. Physiological sleep patterns after open-heart surgery. (Abstract) . . . 232
- Osier, H. *See* Schulman, C. A.
- Oster, Phyllis J., Stern, John A., and Figar, Stepan. Cephalic and digital vasomotor orienting responses: The effect of stimulus intensity and rise time 642
- Oswald, Ian. *See* Firth, H.
- Papakostopolous, Demetrios, and Fenelon, Bernard. Spatial distribution of the contingent negative variation (CNV) and the relationship between CNV and reaction time 74
- Parker, D. *See* Syndulko, K.
- Pfefferbaum, Adolf. *See* Buchsbaum, M.
- Phoenix, M. D. *See* Kaplan, S. L.
- Pomerleau-Malcuit, Andrée, Malcuit, Gérard, and Clifton, Rachel Keen. An attempt to elicit cardiac orienting and defense responses in the newborn to two types of facial stimulation 527
- Porjesz, Bernice, and Begleiter, Henri. The effects of stimulus expectancy on evoked brain potentials 152
- Potvin, A. *See* Salamy, J.
- Poulos, Constantine X. *See* Furedy, J. J.
- Price, Kenneth P., and Tursky, Bernard. The effect of varying stimulus parameters on judgments of nociceptive electrical stimulation 663
- Proctor, J. D. *See* Gatchel, R. J.
- Prokasy, W. F. Editorial 1, 607
- Prokasy, W. F., Williams, W. C., and Clark, C. G. Skin conductance response conditioning with CS intensities equal to and greater than UCS intensity. (Abstract) . . . 232
- Prystav, Gunther H. Autonomic responsivity to sensory stimulation in drug addicts 170
- Putnam, Lois E., Graham, Frances K., and Sigafus, David L. Calibration of earphone-transmitted sounds 106

- Rappaport, Maurice, Hopkins, H. Kenneth, Hall, Karyl, Belleza, Teodoro, and Hall, Robert A. Schizophrenia and evoked potentials: Maximum amplitude, frequency of peaks, variability, and phenothiazine effects 196
- Raskin, David C. *See* Barland, G. H. (2)
- Ratey, J. *See* Schachter, J.
- Ray, W. J. *See* Tucker, D. M.
- Reisler, K. L. *See* Khachaturian, Z. S.
- Rem, Michael A. *See* Schwartz, M.
- Rennick, P. M. *See* Novelly, R. A.
- Robinson, Sharon. *See* Kinsman, R. A.
- Ross, L. E. *See* Nelson, M. N.
- Roth, W. T., Rothbart, R., Darley, C. F., Tinklenberg, J. R., and Kopell, B. S. A model of CNV resolution in a memory retrieval task. (Abstract) 232
- Roth, W. T. *See also* Ford, J. M.
- Rothbart, R. *See* Roth, W. T.
- Rouse, Larry O. On-line period analysis of EEG by time-to-amplitude conversion (TAC) 476
- Ruchkin, D. S., Sutton, S., and Tueting, P. Emitted and evoked P300 potentials and variation in stimulus probability 591
- Salamy, J., and Lester, J. REM sleep and operant responding and the contingent negative variation. (Abstract) . 233
- Salamy, J., Potvin, A., Jones, K., and Landreth, J. Cortical evoked responses to labyrinthine stimulation in man 55
- Salisbury, T. A. *See* Slaughter, J. S.
- Sapper, Herbert W. *See* Hahn, W. W.
- Schachter, J., Kerr, J., Lachin, J. M., and Faer, M. Newborn offspring of a schizophrenic parent: Cardiac reactivity to auditory stimuli 483
- Schachter, J., Ratey, J., Wimberly, F., and Lachin, J. M. Maternal weight gain and newborn blood pressure level. (Abstract) 233
- Schaefer, Arlene B. Newborn responses to nonsignal stimuli: I. Electroencephalographic desynchronization 359
- Scharf, Martin B., Kales, Anthony, and Bixler, Edward O. Readaptation to the sleep laboratory in insomniac subjects 412
- Schell, Anne M., and Catania, Jeffrey. The relationship between cardiac activity and sensory acuity 147
- Schell, Anne M. *See also* Dawson, M.
- Schicht, William W. *See* McDonald, D. G.
- Schiffmann, Karl. *See* Furedy, J. J.
- Schneiderman, N., Augenstein, J. S., and Klose, K. J. Cardiovascular dynamics during aversive classical conditioning of rhesus monkeys. (Abstract) 233
- Schulman, C. A., Benson, P. J., Smith, T., Osier, H., and Galambos, R. Differences in the P3 component of the cortical evoked potential elicited by syllables and pure tones. (Abstract) 233
- Schwartz, Gary E., Fair, P. L., Greenberg, P. S., Foran, J. M., and Klerman, G. L. Self-generated affective imagery elicits discrete patterns of facial muscle activity. (Abstract) 234
- Schwartz, Gary E., Vogler, J., and Young, L. Heart rate self regulation as skill learning: Strength-endurance vs cardiac reaction time. (Abstract) 234
- Schwartz, Gary E. *See also* Bell, I. R., and Hasset, J.
- Schwartz, Marvin, and Rem, Michael A. Does the averaged evoked response encode subliminal perception? 390
- Schwartz, Michael L. *See* Hahn, W. W.
- Shaffer, John W. *See* Stephens, J. H.
- Shallenberger, H. D. *See* McDonald, D. G.
- Shanks, Emily M. *See* Obrist, P. A.
- Shapiro, A. H. Behavior of Kibbutz and urban children receiving an injection 79
- Sharp, Frank H., Smith, Glenn W., and Surwillo, Walter W. Period analysis of the electroencephalogram with recording of interval histograms of EEG half-wave durations 471
- Shevrin, Howard. Does the averaged evoked response encode subliminal perception? Yes. A reply to Schwartz and Rem 395
- Shiel, F. O'M. *See* Corley, K. C.
- Shih, T. M. *See* Khachaturian, Z. S.
- Shulman, Ernest. *See* Cohen, H. D.
- Sigafus, David L. *See* Putnam, L. E.
- Simons, Robert F. *See* Lang, P. J.
- Sintchak, George, and Geer, James H. A vaginal plethysmograph system 113
- Slaughter, John S., Corwin, J. V., and Salisbury, T. A. Vagal stimulation: Effects on fear discrimination. (Abstract) 234
- Slaughter, John S., and Hahn, William W. A chronic electrode for peripheral nerve stimulation: Application for vagal stimulation 110
- Slubicka, Barbara. *See* Martin, I.
- Smith, Glenn W. *See* Sharp, F. H.
- Smith, T. *See* Schulman, C. A.
- Snow, Muriel Y. *See* Goldman, H.
- Stahl, M. L. *See* Orr, W. C.
- Staudenmayer, Herman. *See* Kinsman, R. A.
- Stelmack, Robert M., and Mandelzys, Nathan. Extraversion and pupillary response to affective and taboo words 536
- Stephens, Joseph H., Harris, Alan H., Brady, Joseph V., and Shaffer, John W. Psychological and physiological variables associated with large magnitude heart rate changes 381
- Stern, John A. *See* Oster, P. J.
- Stern, M. *See* Andreassi, J. L.
- Stern, R. M. HR and RT between the 'get set' and 'go' of a race. (Abstract) 235
- Stern, R. M. *See also* Tucker, D. M.
- Strahan, R., Edwards, D. V., and Todd, J. Palmar sweat response to a medical stressor: The influence of prior information. (Abstract) 235
- Strahan, R., Todd, J., and Inglis, G. A measure of palmar sweating specially suited for field research. (Abstract) 235
- Surwillo, Walter W. Interval histogram analysis of period of the electroencephalogram in relation to age during growth and development in normal children 506
- Surwillo, Walter W. *See also* Sharp, F. H.
- Sutton, S. *See* Ruchkin, D. S.
- Svebak, Sven. Respiratory patterns as predictors of laughter 62
- Syndulko, K., Parker, D., Maltzman, I., Jens, R., and Ziskind, E. An electrocortical measure of orienting in sociopaths. (Abstract) 236
- Taylor, Kenneth W. *See* Bernstein, A. S.
- Taylor, M. *See* Davis, C.
- Teff, Leon. *See* Gang, M. J.

- Tinklenberg, J. R. *See* Roth, W. T.
- Todd, J. *See* Strahan, R.
- Townsend, Richard E., Johnson, Laverne C., Naitoh, Paul, and Muzet, Alain G. Heart rate preceding motility in sleep 217
- Townsend, Richard E. *See also* Johnson, L. C.
- Toyoshima, Akiteru. *See* Kadobayashi, I.
- Tracy, M. L. *See* Hord, D. J.
- Travis, T. A. *See* Kondo, C. Y.
- Tryon, Warren W. Pupillometry: A survey of sources of variation 90
- Tucker, D. M., Ray, W. J., and Stern, R. M. Cognitive structure and EEG asymmetry. (Abstract) 236
- Tueting, P. *See* Ruchkin, D. S.
- Tursky, Bernard. *See* Fein, G., and Price, K. P.
- Valle, Ronald S., and Levine, John M. Expectation effects in alpha wave control. 306
- Varni, Jill R. *See* Varni, J. G.
- Varni, John G. Learned asymmetry of localized electrodermal responses 41
- Varni, John G., Doerr, Hans O., and Varni, Jill R. Relationships between bilateral differences in body perception and bilateral differences in skin conductance levels 179
- Velden, Manfred, and Juris, Michael. Perceptual performance as a function of intra-cycle cardiac activity
- Venables, P. H. *See* Gruzelier, J. H.
- Vogler, J. *See* Schwartz, G. E.
- Wasman, Marvin, and Gluck, Henry. Recovery functions of somatosensory evoked responses in slow learners . 371
- Waters, William F., and McDonald, David G. Stimulus and temporal variables in the "below-zero" habituation of the orienting response 461
- Watts, J. M. J. Anxiety and the habituation of the skin conductance response 596
- Webb, W. B., and Agnew, H. W. Jr. Sleep efficiency for sleep-wake cycles of varied length 637
- Webb, W. B., and Agnew, H. W. Jr. The effects on subsequent sleep of an acute restriction of sleep length 367
- Webster, Jeffrey S. *See* Epstein, L. H.
- Weinberg, H. *See* Davis, C.
- Weiner, Lynda. *See* Cartwright, R. D.
- Weinstein, Erica. *See* Bernstein, A. S.
- Weiss, Theodore, and Engel, Bernard T. Evaluation of an intra-cardiac limit of learned heart rate control 310
- Weiss, Theodore, Lattin, G. M., and Engelman, K. Autonomic nervous system effects on premature ventricular contractions. (Abstract) 236
- Wiesenfeld, Alan R., Klorman, Rafael, and Austin, Mary L. Orienting (OR) and defensive (DR) reactions to affective stimuli. (Abstract) 236
- Wiesenfeld, Alan R. *See also* Klorman, R.
- Williams, Barbara. *See* Williams, J. G. L. (2)
- Williams, James G. L., Jones, John R., and Williams, Barbara. The chemical control of preoperative anxiety 46
- Williams, James G. L., Jones, John R., Workhoven, M. Nicholas, and Williams, Barbara. The psychological control of preoperative anxiety 50
- Williams, R. B. Jr. HR and forearm blood flow (FBF) feedback in the treatment of a case of severe essential hypertension. (Abstract) 237
- Williams, R. B. Jr. HR feedback in the treatment of torticollis: A case report. (Abstract) 237
- Williams, Redford B. Jr., Bittker, Thomas E., Buchsbaum, Monte S., and Wynne, Lyman C. Cardiovascular and neurophysiologic correlates of sensory intake and rejection. I. Effect of cognitive tasks 427
- Williams, Redford B. Jr. *See also* Bittker, T. E., and Grignolo, A.
- Williams, W. C. *See* Prokasy, W. F.
- Wilson, J. Roger, and DiCara, Leo V. Influence of neuromuscular blocking drugs on recovery of skeletal electromyographic activity in the rat 249
- Wilson, M. R. *See* Johnson, L. C.
- Wimberly, F. *See* Schachter, J.
- Witkin, Herman A. *See* Cohen, H. D., and Goodenough, D. R.
- Woodruff, Diana S. Relationships among EEG alpha frequency, reaction time, and age: A biofeedback study 673
- Workhoven, M. Nicholas. *See* Williams, J. G. L.
- Wynne, Lyman C. *See* Bittker, T. E., and Williams, R. B. Jr.
- Young, L. *See* Schwartz, G. E.
- Zahn, T. P., and Little, B. C. The psychophysiology of everyday life: Autonomic concomitants of daily changes in mood. (Abstract) 237
- Zeiner, Arthur R. *See* Lofallo, W.
- Ziskind, E. *See* Syndulko, K.
- Zuckerman, Marvin. *See* Mangelsdorf, A. D.

PSYCHOPHYSIOLOGY

Volume 12

January 1975–November 1975

Published Bimonthly by THE SOCIETY FOR PSYCHOPHYSIOLOGICAL RESEARCH
Madison, Wisconsin 53711

COPYRIGHT © 1975 BY THE SOCIETY FOR PSYCHOPHYSIOLOGICAL RESEARCH

Contents of Volume 12

No. 1, JANUARY 1975

<i>Editorial</i>	1
Cardiovascular Function During Pre-Avoidance, Avoidance, and Post-Avoidance in Dogs. JAMES E. LAWLER, PAUL A. OBRIST, AND KATHLEEN A. LAWLER ...	4
Stimulus Intensity Reduction Following Habituation. DAVID C. EDWARDS	12
Magnitude of the Heart Rate and Electrodermal Response as a Function of Stimulus Input, Motor Output, and Their Interaction. SEYMOUR EPSTEIN, LOUIS BOUTREAU, AND STEPHEN KLING	15
The Effects of Chlorpromazine and Dextroamphetamine Sulphate On the Visual Stimulation Preference of Extraverts and Introverts. CURT R. BARTOL	25
Continuous Biofeedback and Discrete Posttrial Verbal Feedback in <i>Frontalis</i> Muscle Relaxation Training. ROBERT A. KINSMAN, KATY O'BANION, SHARON ROBINSON, AND HERMAN STAUDENMAYER	30
Auditory Vigilance Correlates of Electrodermal Response Habituation Speed. ANDREW CRIDER AND C. B. AUGENBRAUN	36
Learned Asymmetry of Localized Electrodermal Responses. JOHN G. VARNI ...	41
The Chemical Control of Preoperative Anxiety. JAMES G. L. WILLIAMS, JOHN R. JONES, AND BARBARA WILLIAMS	46
The Psychological Control of Preoperative Anxiety. JAMES G. L. WILLIAMS, JOHN R. JONES, M. NICHOLAS WORKHOVEN, AND BARBARA WILLIAMS	50
Cortical Evoked Responses to Labyrinthine Stimulation in Man. J. SALAMY, A. POTVIN, K. JONES, AND J. LANDRETH	55
Respiratory Patterns as Predictors of Laughter. SVEN SVEBAK	62
Evidence of High and Low Levels of Physiological Arousal in Schizophrenics. J. H. GRUZELIER AND P. H. VENABLES	66
Spatial Distribution of the Contingent Negative Variation (CNV) and the Relationship between CNV and Reaction Time. DEMETRIOS PAPAKOSTOPOULOS AND BERNARD FENELON	74
Behavior of Kibbutz and Urban Children Receiving an Injection. A. H. SHAPIRO	79
Response Relationships in SRR Conditioning. IRENE MARTIN, A. B. LEVEY, AND BARBARA SLUBICKA	83
<i>Methodology</i>	
Pupillometry: A Survey of Sources of Variation. WARREN W. TRYON	90
Electrodermal Activity Recorded Concomitantly From the Subject's Two Hands. R. H. C. BULL AND M. A. GALE	94
Contingency Theory and Classical Autonomic Excitatory and Inhibitory Conditioning: Some Problems of Assessment and Interpretation. JOHN J. FUREDY, CONSTANTINE X. POULOS, AND KARL SCHIFFMANN	98
Calibration of Earphone-Transmitted Sounds. LOIS E. PUTNAM, FRANCES K. GRAHAM, AND DAVID L. SIGAFUS	106
<i>Instrumentation</i>	
A Chronic Electrode for Peripheral Nerve Stimulation: Application for Vagal Stimulation. JOHN S. SLAUGHTER AND WILLIAM W. HAHN	110
A Vaginal Plethysmograph System. GEORGE SINTCHAK AND JAMES H. GEER	113
Modification of the Grass 7P4 Tachograph Preamplifier for More Reliable Triggering. PEYTON H. BLAND	116
<i>Instructions to Authors</i>	118
<i>Outline For Preparation of Abstracts</i>	14
<i>Announcements</i>	54, 65, 112

No. 2, MARCH 1975

A Comparison of Auditory and Visual Feedback in Biofeedback Assisted Muscular Relaxation Training. A. BARNEY ALEXANDER, CHERYL ANNE FRENCH, AND NAOMI J. GOODMAN	119
Habituation to Scenes of Violence. A. DAVID MANGELSDORFF AND MARVIN ZUCKERMAN	124
The Effects of Paced Tapping on Heart Rate, Skin Conductance, and Muscle Potential. NICHOLAS JOHN CARRIERO	130
Effects of the Range of Stimulus-Variation Upon Habituation of the Orienting Response. TETSURO MINO AND YO MIYATA	136
Sleep Stage Deprivation and Total Sleep Loss: Effects On Sleep Behavior. J. M. MOSES, L. C. JOHNSON, P. NAITOH, AND A. LUBIN	141
The Relationship Between Cardiac Activity and Sensory Acuity. ANNE M. SCHELL AND JEFFREY CATANIA	147
The Effects of Stimulus Expectancy on Evoked Brain Potentials. BERNICE PORJESZ AND HENRI BEGLEITER	152
The Phasic Electrodermal Response As a Differentiated Complex Reflecting Stimulus Significance. ALVIN S. BERNSTEIN, KENNETH W. TAYLOR, AND ERICA WEINSTEIN	158
Autonomic Responsivity to Sensory Stimulation in Drug Addicts. GUNTHER H. PRYSTAV	170
Relationships Between Bilateral Differences in Body Perception and Bilateral Differences in Skin Conductance Levels. JOHN G. VARNI, HANS O. DOERR, AND JILL R. VARNI	179
Sex Differences in Autonomic Responses to Electric Shock. CATHRYN WALTERS LIBERSON AND W. T. LIBERSON	182
Visual Evoked Potentials Before and After Kraepelin Performance Test in Schizophrenia. IWAO KADOBAYASHI, AKITERU TOYOSHIMA, AND NOBUKATSU KATO	187
Sleep and Memory: Retention 8 and 24 Hours After Initial Learning. K. BENSON AND I. FEINBERG	192
Schizophrenia and Evoked Potentials: Maximum Amplitude, Frequency of Peaks, Variability, and Phenothiazine Effects. MAURICE RAPPAPORT, H. KENNETH HOPKINS, KARYL HALL, TEODORO BELLEZA, AND ROBERT A. HALL	196
Effects of Vibrotactile Background on the Somatosensory Evoked Response. MOSHE FEINSOD, RACHEL FEINSOD, AND JULIUS M. MADEY	208
<i>Instrumentation</i>	
A Device for Studying the Psychophysiologic Effects of Thermal Stimulation of the Human Esophagus. WILLIAM F. MAULE, PAUL E. BAER, AND MARCUS J. FUHRER	212
<i>Brief Report</i>	
Heart Rate Preceding Motility in Sleep. RICHARD E. TOWNSEND, LAVERNE C. JOHNSON, PAUL NAITOH, AND ALAIN G. MUZET	217
<i>SPR Award, 1974</i>	
For Distinguished Contribution to Psychophysiology: Robert Edelberg. JOHN I. LACEY	220
<i>Abstracts</i>	
Abstracts of Papers Presented at the Fourteenth Annual Meeting of The Society for Psychophysiological Research	224
<i>Announcements</i>	123, 157, 186, 191, 211, 219

No. 3, MAY 1975

Presidential Address, 1974

The More or Less Startling Effects of Weak Prestimulation. FRANCES K. GRAHAM	238
Influence of Neuromuscular Blocking Drugs on Recovery of Skeletal Electromyographic Activity in the Rat. J. ROGER WILSON AND LEO V. DI CARA	249
Tone Intensity and Rise-Decay Time Effects on Cardiac Responses During Sleep. W. KEITH BERG, JAN C. JACKSON, AND FRANCES K. GRAHAM	254
Heart Rate Changes During a Fixed Reaction Time Task in Normal and Retarded Adult Males. ANTOINETTE KRUPSKI	262
The Cold Pressor Test and Autonomic Function: A Review and Integration. WILLIAM LOVALLO	268
Detection of Information and GSR Habituation: An Attempt to Derive Detection Efficiency From Two Habituation Curves. GERSHON BEN SHAKHAR, ISRAEL LEIBLICH, AND SOL KUGELMASS	283
Conditioned Orienting and Defensive Responses. ROBERT D. HARE AND GEORGE BLEVINGS	289
Heart Rate, Activity, and Activation in Rats. ROGERS ELLIOTT	298
Expectation Effects in Alpha Wave Control. RONALD S. VALLE AND JOHN M. LEVINE	306
Evaluation of an Intra-Cardiac Limit of Learned Heart Rate Control. THEODORE WEISS AND BERNARD T. ENGEL	310
The Effects of Stress Films on Dream Affect and on Respiration and Eye-Movement Activity During Rapid-Eye-Movement Sleep. DONALD R. GOODENOUGH, HERMAN A. WITKIN, DAVID KOULACK, AND HARVEY COHEN	313
An Evaluation of Field Techniques in Detection of Deception. GORDON H. BARLAND AND DAVID C. RASKIN	321
The Effects of <i>d</i> -Tubocurarine Chloride and Respiratory Settings on Heart Rate and Blood Gas Composition in the Albino Rat. WILLIAM W. HAHN, MICHAEL L. SCHWARTZ, AND HERBERT V. SAPPER	331
Voluntary Control and Reactivity of Human Heart Rate. IRIS R. BELL AND GARY E. SCHWARTZ	339
The Effect of REM Deprivation: Is It Detrimental, Beneficial, or Neutral? ISAAC LEWIN AND HANANIA GLAUBMAN	349
<i>Instrumentation</i>	
Common Mode Rejection Techniques in Conjugate Eye Movement Recording During Sleep. DAVID HORD	354
<i>Announcements</i>	253, 282, 288, 305, 338, 356, 357
<i>Instructions to Authors</i>	358

No. 4, JULY 1975

Newborn Responses to Nonsignal Auditory Stimuli: I. Electroencephalographic Desynchronization. ARLENE B. SCHAEFER	359
The Effects on Subsequent Sleep of an Acute Restriction of Sleep Length. W. B. WEBB AND H. W. AGNEW, JR.	367
Recovery Functions of Somatosensory Evoked Responses in Slow Learners. MARVIN WASMAN AND HENRY GLUCK	371

The Effects of Stress on Components of the Respiration Cycle. HARVEY D. COHEN, DONALD R. GOODENOUGH, HERMAN A. WITKIN, PHILIP OLTMAN, HARRY GOULD, AND ERNEST SHULMAN	377
Psychological and Physiological Variables Associated With Large Magnitude Voluntary Heart Rate Changes. JOSEPH H. STEPHENS, ALAN H. HARRIS, JOSEPH V. BRADY, AND JOHN W. SHAFFER	381
The Effects of Changes in Motivation on Alpha Enhancement. C. Y. KONDO, T. A. TRAVIS, AND J. R. KNOTT	388
Does the Averaged Evoked Response Encode Subliminal Perception? MARVIN SCHWARTZ AND MICHAEL A. REM	390
Does the Averaged Evoked Response Encode Subliminal Perception? Yes. A Reply to Schwartz and Rem. HOWARD SHEVRIN	395
Cognitive Control Factors in Vascular Stress Responses. DOUGLAS E. DE GOOD	399
Heart Rate Perception and Heart Rate Control. RICHARD A. MC FARLAND	402
Stimulus Specificity of Electrodermal Recovery Time: An Examination and Reinterpretation of the Evidence. ROBERT S. BUNDY AND HIRAM E. FITZGERALD	406
Readaptation to the Sleep Laboratory in Insomniac Subjects. MARTIN B. SCHARF, ANTHONY KALES, AND EDWARD O. BIXLER	412
Visual Evoked Responses as a Function of Light Intensity in Down's Syndrome and Nonretarded Subjects. J. B. GLIDDON, JYTTE BUSK, AND GARY C. GALBRAITH	416
Individual Differences in Heart Rate Responses to Affective Sound. MARK JAY GANG AND LEON TEFT	423
Cardiovascular and Neurophysiologic Correlates of Sensory Intake and Rejection. I. Effect of Cognitive Tasks. REDFORD B. WILLIAMS, JR., THOMAS E. BITTKER, MONTE S. BUCHSBAUM, AND LYMAN C. WYNNE	427
Cardiovascular and Neurophysiologic Correlates of Sensory Intake and Rejection. II. Interview Behavior. THOMAS E. BITTKER, MONTE S. BUCHSBAUM, REDFORD B. WILLIAMS, JR., AND LYMAN C. WYNNE	434
Cardiac Responses Associated with "Yoked-Chair" Shock Avoidance in Squirrel Monkeys. K. C. CORLEY, H. P. MAUCK, AND F. O'M. SHIEL	439
Operant Conditioning of Heart Rate: Somatic Correlates. PAUL A. OBRIST, RICHARD A. GALOSY, JAMES E. LAWLER, CLAUDE J. GAEBELEIN, JAMES L. HOWARD, AND EMILY M. SHANKS	445
Alpha Enhancement: Effectiveness of Two Feedback Contingencies Relative to a Resting Baseline. WILLIAM N. KUHLMAN AND DOUGLAS M. KLIEGER	456
Stimulus and Temporal Variables in the "Below-Zero" Habituation of the Orienting Response. WILLIAM F. WATERS AND DAVID G. MCDONALD	461
Frontalis Muscle Tension and Sleep Latency. ROBIN GOOD	465
<i>Methodology</i>	
Reliability of Various Estimates of Electromyogram Activity: Within and Between Subject Analyses. LEONARD H. EPSTEIN AND JEFFREY S. WEBSTER	468
<i>Computer Software</i>	
Period Analysis of the Electroencephalogram With Recording of Interval Histograms of EEG Half-Wave Durations. FRANK H. SHARP, GLENN W. SMITH, AND WALTER W. SURWILLO	471
<i>Instrumentation</i>	
On-Line Period Analysis of EEG by Time-to-Amplitude Conversion (TAC). LARRY O. ROUSE	476
The "Double-Collar" Technique for EEG Electrode Preparation and Placement. GEORGE FEIN, ALLAN FROSCH, AND ALAN BORRONI	480
<i>Announcements</i>	376, 415, 433, 438, 470, 479

No. 5, SEPTEMBER 1975

Newborn Offspring of a Schizophrenic Parent: Cardiac Reactivity to Auditory Stimuli. J. SCHACHTER, J. KERR, J. M. LACHIN, AND M. FAER	483
Aspects of the Cerebral Circulation During Non-REM Sleep in Healthy Controls and Psychiatric Patients, As Shown by Rheoencephalography. J. W. LOVETT DOUST AND J. N. LOVETT DOUST	493
Some Factors Influencing the Vasomotor Response to Cold Pressor Stimulation. WILLIAM LOVALLO AND ARTHUR R. ZEINER	499
Interval Histogram Analysis of Period of the Electroencephalogram in Relation to Age During Growth and Development in Normal Children. WALTER W. SURWILLO	506
Systolic Blood Pressure and Heart Rate Changes During Three Sessions Involving Biofeedback or No Feedback. STEVEN G. FEY AND ERNEST LINDHOLM	513
The Effect of Artificial Ventilation on Cardiovascular Status and on Heart Rate Conditioning in the Curarized Rat. SUSAN MIDDLEAUGH, ETHEL EISENBERG, AND JASPER BRENER	520
An Attempt to Elicit Cardiac Orienting and Defense Responses in the Newborn to Two Types of Facial Stimulation. ANDRÉE POMERLEAU-MALCUIT, GÉRARD MALCUIT, AND RACHEL KEEN CLIFTON	527
Extraversion and Pupillary Response to Affective and Taboo Words. ROBERT M. STELMACK AND NATHAN MANDELZYS	536
Hemispheric Asymmetries in the Visual Cortical Evoked Potential as a Function of Stimulus Location. J. L. ANDREASSI, H. OKAMURA, AND M. STERN	541
Relaxation Training and Biofeedback in the Reduction of Frontalis Muscle Tension. STEPHEN N. HAYNES, DIANNE MOSELEY, AND WILLIAM T. MC GOWAN	547
Autonomic Responses to Affective Visual Stimuli. RAFAEL KLORMAN, ALAN R. WIESENFELD, AND MARY L. AUSTIN	553
Effects of REM Time on What is Recalled. ROSALIND D. CARTWRIGHT, STEPHEN LLOYD, ELIZABETH BUTTERS, LYNDY WEINER, LOIS MC CARTHY, AND JUDITH HANCOCK	561
Relationship Between Essential Hypertension and Cognitive Functioning: Effects of Biofeedback. HERBERT GOLDMAN, KENNETH M. KLEINMAN, MURIEL Y. SNOW, DONALD R. BIDUS, AND BERNARD KOROL	569
Habituation During Sleeping and Waking. L. C. JOHNSON, R. E. TOWNSEND, AND M. R. WILSON	574
Effect of Self-Enhanced EEG Alpha on Performance and Mood After Two Nights of Sleep Loss. D. J. HORD, M. L. TRACY, A. LUBIN, AND L. C. JOHNSON	585
Emitted and Evoked P300 Potentials and Variation in Stimulus Probability. D. S. RUCHKIN, S. SUTTON, AND P. TUETING	591
Anxiety and the Habituation of the Skin Conductance Response. J. M. J. WATTS	596
Eye Movements and Visually Active Dreams. HUGH FIRTH AND IAN OSWALD ..	602
Announcements	492, 512, 519, 560, 568, 606

No. 6, NOVEMBER 1975

Editorial	607
Contingent Negative Variation and Cardiac Deceleration in a Long Preparatory Interval: A Developmental Study. RAFAEL KLORMAN	609
Habituation of the Orienting Response in Sleep. DAVID G. MC DONALD AND F. ALLEN CARPENTER	618

Studies of Information Processing in Sleep. DAVID G. MC DONALD, AND DAVID J. EDWARDS	624
Electrodermal Recovery Rate in a Schizophrenic Population. HILDEGARD R. MARICQ AND ROBERT EDELBERG	630
Cardiac Response to Simple Stimuli as a Function of Phase of the Respiratory Cycle. JAMES D. HART	634
Sleep Efficiency for Sleep-Wake Cycles of Varied Length. W. B. WEBB AND H. W. AGNEW, JR.	637
Cephalic and Digital Vasomotor Orienting Responses: The Effect of Stimulus Intensity and Rise Time. PHYLLIS J. OSTER, JOHN A. STERN, AND STEPAN FIGAR	642
Electro-cortical and Cardiac Rate Correlates of Psychophysical Judgment. PETER J. LANG, ROBERT J. GATCHEL, AND ROBERT F. SIMONS	649
An Experimental Test of Assumptions Relating to the Rise of Electromyographic Biofeedback as a General Relaxation Training Technique. A. BARNEY ALEXANDER	656
The Effect of Varying Stimulus Parameters on Judgments of Nociceptive Electrical Stimulation. KENNETH P. PRICE AND BERNARD TURSKY	663
Correlation Between the Chromatic Visual Evoked Response and McCollough Aftereffect. GARY C. GALBRAITH, ANNA HOHMANN, AND OTTO D. CREUTZFELDT	667
Relationships Among EEG Alpha Frequency, Reaction Time, and Age: A Biofeedback Study. DIANA S. WOODRUFF	673
Psychopathy and Physiological Arousal in an Aggressive Task. H. A. DINGERINK AND H. S. BERTILSON	682
Perceptual Performance as a Function of Intra-Cycle Cardiac Activity. MANFRED VELDEN AND MICHAEL JURIS	685
CO ₂ : A Possible Missing Link Between Regional Cortical Metabolism and Transcephalic Direct Current Potentials. MURRAY A. COWEN	693
Alcohol State-Dependency and Autonomic Reactivity. LOWELL T. CROW AND CORBIN BALL	702
Effect of Sleep Stage and Stimulus Intensity on Auditory Average Evoked Responses. MONTE BUCHSBAUM, J. CHRISTIAN GILLIN, AND ADOLF PFEFFERBAUM	707
<i>Computer Software</i>	
An Application Language for Psychophysiological Experimentation. HEINER LEGEWIE, GERHARD DIRLICH, AND FREIDEMANN GERSTER	713
<i>Author Index for Volume 12</i>	717
<i>Announcements</i>	608, 629, 648, 662, 666, 672, 692